

ABSTRACT OF THE DISCLOSURE

The present invention relates to a phase lock oscillator which has a phase-locked loop including a reactive element and varies a reactance of the reactive element at an instant prior to an instant at which the phase-locked loop reaches a limit of maintaining its lock state, and relates to a communication equipment with the lock phase oscillator mounted therein. The phase lock oscillator and the communication equipment can flexibly adapt to variances in environment conditions and maintain stable and high service quality.

1. A phase lock oscillator comprising:
a phase-locked loop including a reactive element;
a control unit configured to vary a reactance of the reactive element at an instant prior to an instant at which the phase-locked loop reaches a limit of maintaining its lock state;
a communication equipment with the lock phase oscillator mounted therein.